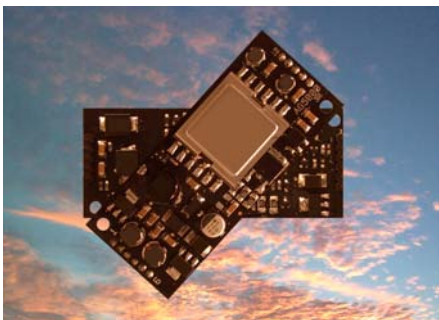# Ag5000 'The First'

Universal High Power Over Ethernet Module (PoE+)

- **Compatible with 2 or 4 wire PSE's**
- **Dynamic PSE detection intelligence**
- **Up to 30 Watt Output Power**
- **Enables input power sharing**
- **85% efficiency DC/DC converter**
- **Adjustable output voltage.**
- **1500V isolation (input to output)**
- **Input voltage range 37V to 57V**
- **IEEE802.3af compliant inputs**
- **Low output ripple and noise**
- **Minimal (low cost) external components required**
- **Overload, thermal and short-circuit protection**
- **Simple integration**

The Ag5000 is a PoE+ module that can deliver up to 30 Watts of output power. This is ideal for applications such as IP Telephones, WiMAX access points, PTZ cameras and remote computer terminals.

The Ag5000 solves the PoE+ supply configuration issue by using a unique dynamic input power sharing process. It automatically detects if the input power is being supplied from the data pair, the spare pair or both pairs. The module can also automatically detect input voltage imbalances and adjust load sharing accordingly. The modules dual inputs both conform to the IEEE 802.3af standard for signature recognition and class programming. This allows the module to work with not only, off the shelf PoE+ PSE's from various manufacturers, but also the combination of two IEEE 802.3af mid-span and end-span injectors.

The high efficiency DC/DC converter operates over a wide input voltage range and provides a regulated low ripple and low noise output. The DC/DC converter also has built-in overload, thermal and short-circuit output protection.

The Ag5000 supports all known PoE supply configurations.